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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,472	09/22/2003	Walter Beck	10191/3280	2949
26646 7590 12/03/2008 KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			TALBOT, BRIAN K	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/668,472 BECK ET AL. Office Action Summary Examiner Art Unit Brian K. Talbot 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 22 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.4-8 and 11-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.4-8.11-22 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date _

6) Other:

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/22/08 has been entered.

Claim Rejections - 35 USC § 112

2. With respect to claim 14, the claim is a duplicate of claim 1. The only difference noted is the term "highly conductive" first metal; however, both first metals are recited as being silver in both claims. Hence, the claim should be canceled to avoid duplicate claims.

Regarding claims 15,16,19 and 20, the term "paladium" appears to be a typographical error and should be recited as palladium. In addition, the term "relatively low temperature that is below the melting point" is vague and indefinite as to what the term "relatively low" encompasses.

Claim Rejections - 35 USC § 103

 Claims 1,4-8 and 11-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (U.S. Patent 6,406,939, hereafter '939) (a) in view of Zuniga-Ortiz et al. (U.S. Patent Application/Control Number: 10/668,472

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Application Publication 2003/0080392, hereafter '392) and Bayan et al. (U.S. Patent 6,372,539, hereafter '539) or (b) in view of Applicant's admitted state of the art (pg. 1, lines 5-13).

Claims 1 and 6: '939 teaches an example which teaches

a method for producing a conductive coating on a dielectric (i.e. insulating) substrate (col. 3, lines 43-53), comprising:

equipping, in selected regions, at least one surface of an electrically insulating substrate (401) with a coating of an electrically highly conductive first metal (402), the coating being structured as a printed circuit board;

cleaning the at least one coated surface (col. 6, lines 42-46);

seeding the coating with seeds of a second metal (Ni) and then depositing a layer including an alloy (Ni-P) of the second metal onto the coating seeded with the seeds of the second metal via electroless plating (col. 6, lines 50-55).

Claim 3: The electrolessly plated metal may include palladium alloys (col. 4, lines 6-11).

'939 does not explicitly teach that this substrate is subjected to firing. However, the examiner takes Official Notice that it is well known in the art of printed circuit components to fire components to bond them to one another after formation of the components. See, e.g., '939 col. 8, lines 34-40.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have bonded the product of Example 2 to another substrate via a firing process because it is well known in the art to use such processes in order to join printed circuit components together.

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(a) '939 is discussed above. It teaches that the substrate may be a ceramic (col. 4, line 63-col. 5, line 2), but does not teach that the first metal includes silver.

However, silver is a well known material for terminal bonding pads. See, e.g., '392, claim 23. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a terminal pad including silver as the particular terminal pad of '939 with a reasonable expectation of success because '392 teaches that silver is a suitable material for terminal pads. The selection of something based on its known suitability for its intended use has been held to support a *prima facie* case of obviousness. *Sinclair & Carroll Co. v. Interchemical Corp.*, 325 U.S. 327, 65 USPQ 297 (1945).

'939 teaches that the product may be subjected to connection technologies such as wire bonding, but '939 and '392 do not explicitly teach contacting a gold bonding wire to the first metal

However, '539 teaches that gold wires may be used as connection technologies for circuit components, and that gold forms a sufficient bond with silver (col. 4, lines 38-50). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a gold bonding wire as the particular connection technology of '939 for attaching at least one chip because '939 teaches that wire bonding is a conventional connection technology and because '539 teaches that gold wires in particular are suitable for successful bonding to silver.

(b) '939 fails to teach the metallization paste to be silver, gold or silver alloys.

Applicant's admitted state of the art (pg. 1, lines 5-13) teaches that it is well known in the art that "in modern electronics, the trend is toward a greater and greater reduction in component sizes and toward the integration of passive components as well, so that existing requirements in terms of increasing integration density of integrated circuits can be met. One promising technology for achieving this goal is so-called low-temperature co-fired ceramic (LTCC), known for example from the periodical "productronic" 8, 1995, pp. 40 ft. LTCC refers to a glass-ceramic mixture that, together with metallization pastes made e.g. from Ag, AgPd, or Au, is fired at a relatively low temperature that is below the melting point of the aforesaid metals. '.

Therefore it would have been obvious for one skilled in the art to have utilized silver, gold or a silver allow as evidenced by Applicant's admitted state of the art (pg. 1, lines 5-13) with the expectation of increasing integration density of integrated circuits as detailed above.

Claims 4-5,7-8,17 and 21: Regarding the composition of the alloy, it has been held that "differences in concentration or temperature will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical." (MPEP 2144.05.II.A.)

Response to Amendment

 Applicant's arguments filed 9/22/08 have been fully considered but they are not persuasive. Applicant argued that claim 14 is not a duplicate of claim 1.

The Examiner disagrees. As noted in the rejection above, the only difference in scope of claim 1 and claim 14 is the recitation of "electrically highly conductive metal" vs. metal. As noted above the metal are recite as both being silver, and therefore, the claims are a duplicate thereof. Claim 1 recites: the coating" whereas claim 11 recites "the at least one coated surface". The Examiner sees no difference between the recitation in light of claim 1 also reciting "at least one coated surface" in the cleaning step. Both claims, therefore, recite "at least one coated surface" even though the antecedent basis of the phrase "at least one coated surface" was not recited in claim 1 does not render the claim patentably different. In conclusion, the rejection is maintained.

Appellant argued that the prior art fails to teach a LTCC (low temperature fired ceramic) as the substrate and that the prior art fails to teach the metallized paste being silver, gold or a silver alloy.

Applicant's admitted state of the art (pg. 1, lines 5-13) teaches this limitation as detailed above.

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The
examiner can normally be reached on Monday-Friday 8AM-4PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian K Talbot/ Primary Examiner, Art Unit 1792

BKT